

NAVAL TECHNICAL TRAINING COMMAND

STUDENTS GUIDE

for

SH-3 COMMUNICATION/NAVIGATION SYSTEMS ORGANIZATIONAL MAINTENANCE COURSE

SECTION I (INFORMATION SHEETS)

SECTION IV (DIAGRAMS)

C-102-3403



NOT AUTHORIZED FOR
USE IN MAINTENANCE
WORK CENTERS

CNTT N6373D (9-83)

NAVAL AIR MAINTENANCE TRAINING GROUP
For Training Purposes Only

NAVAL AIR MAINTENANCE TRAINING GROUP

STUDENT INFORMATION SHEETS

FOR

SH-3 COMMUNICATION/NAVIGATION SYSTEMS
ORGANIZATIONAL MAINTENANCE COURSE

C-102-3403

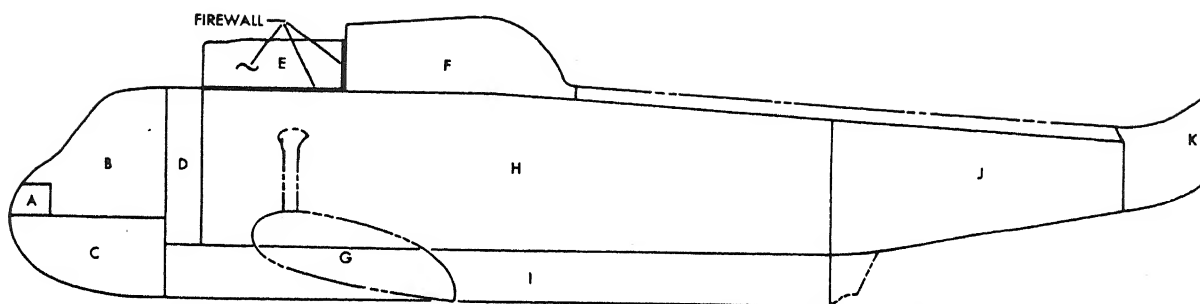
SECTION I

DATE: OCTOBER 1981

(FOR TRAINING PURPOSES ONLY)

TABLE OF CONTENTS

SH-3 Compartmentation (Major Sections)	1
Inboard Profile and Principal Dimensions	2
Main Rotor Blade Parts Breakdown	3
Tail Rotor Blade Assembly	4
General Arrangement-Exterior	5
Blade Fold Distribution Manifold	6
Flight Control Servo Hydraulic Systems	7
Landing Gear Hydraulic System	8
Utility Hydraulic System	9
Main Gear Box Accessory Section	10
Transmission System	11
Power Plants Installed and Demountable Power Plant	12
Fuel Management Panel	13
Fuel System	14
Auxiliary Fuel System	15
SH3 Power Distribution (Electrical Power)	16
Instrument Panel	17
Raws Warning- All Conditions	18

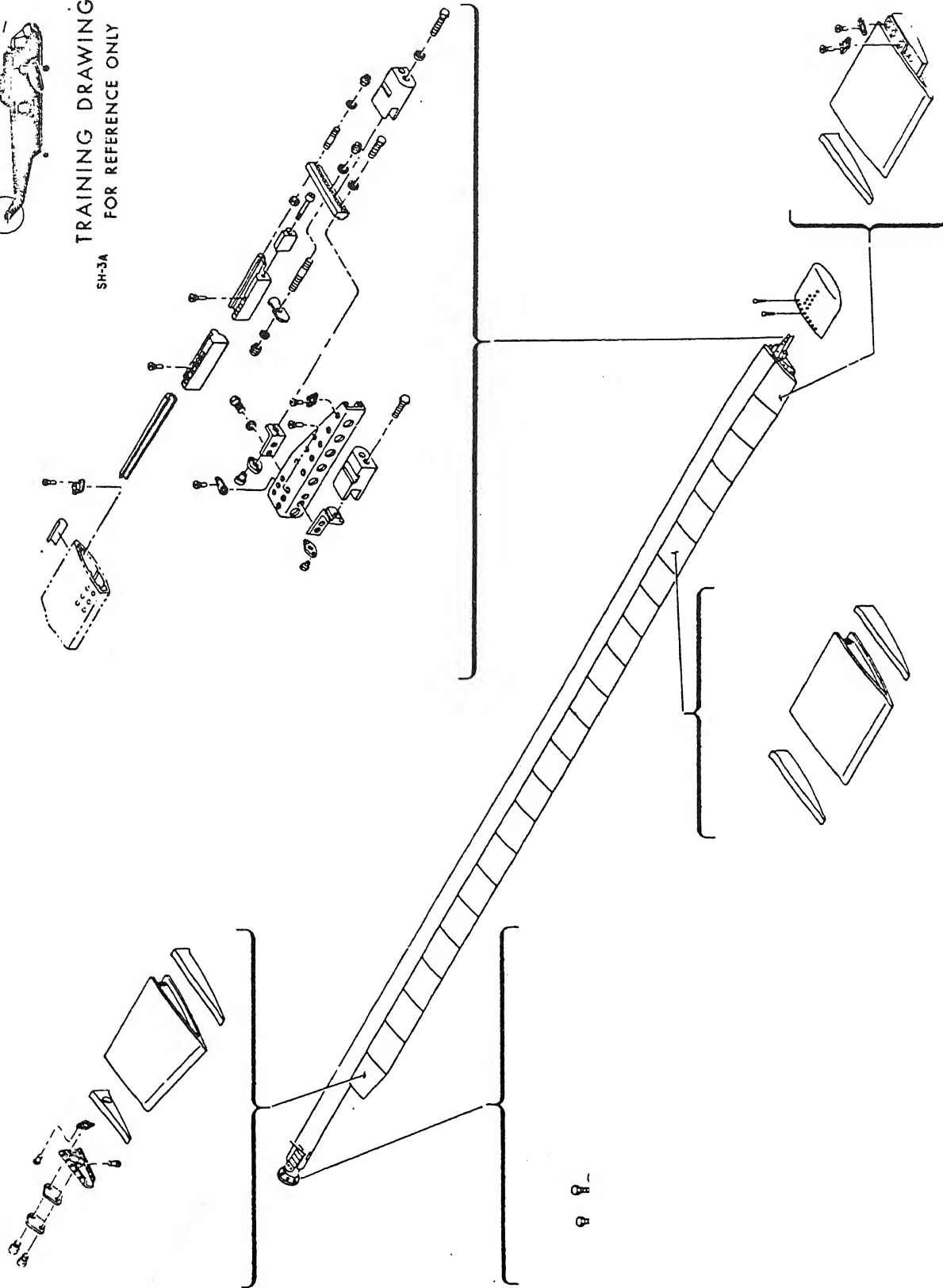


- | | |
|--|----------------------------|
| A BATTERY COMPARTMENT | F TRANSMISSION COMPARTMENT |
| B COCKPIT | G SPONSON AND STRUT |
| C ELECTRONICS COMPARTMENT | H CABIN |
| D HEATER AND ASE CONTROLS COMPARTMENTS | I BOTTOM STRUCTURE |
| E ENGINE COMPARTMENT | J AFT FUSELAGE |
| | K PYLON |

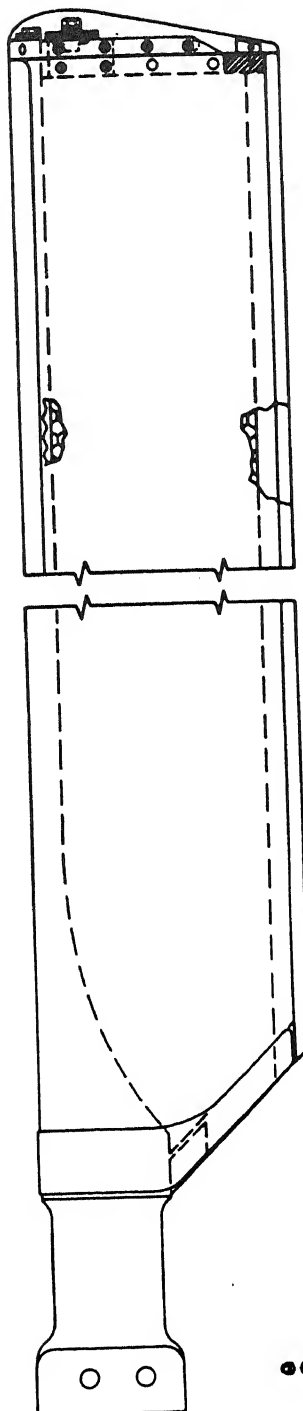
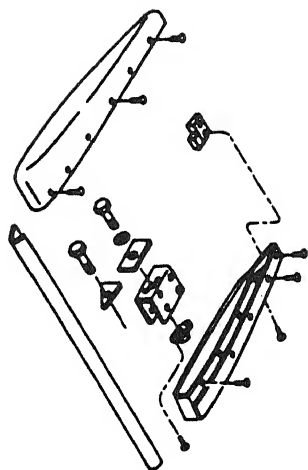
SH-3A COMPARTMENTATION
(Major Sections)



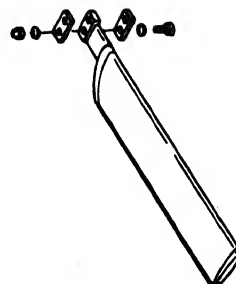
SH-3A
TRAINING DRAWING
FOR REFERENCE ONLY



MAIN ROTOR BLADE PARTS BREAKDOWN



STANDARD BLADE



TRAINING DRAWING
94-34 FOR REFERENCE ONLY

TAIL ROTOR BLADE ASSEMBLY

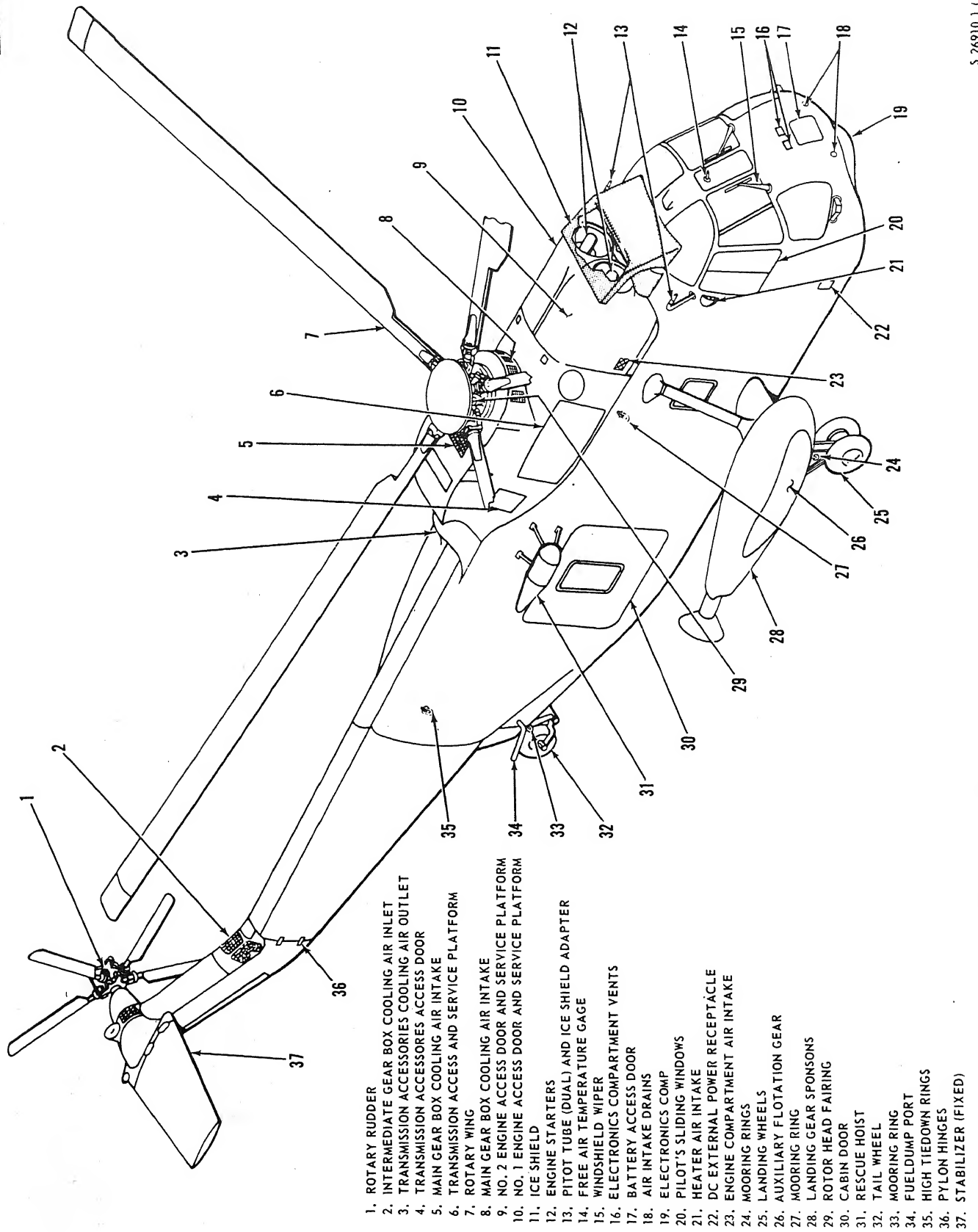
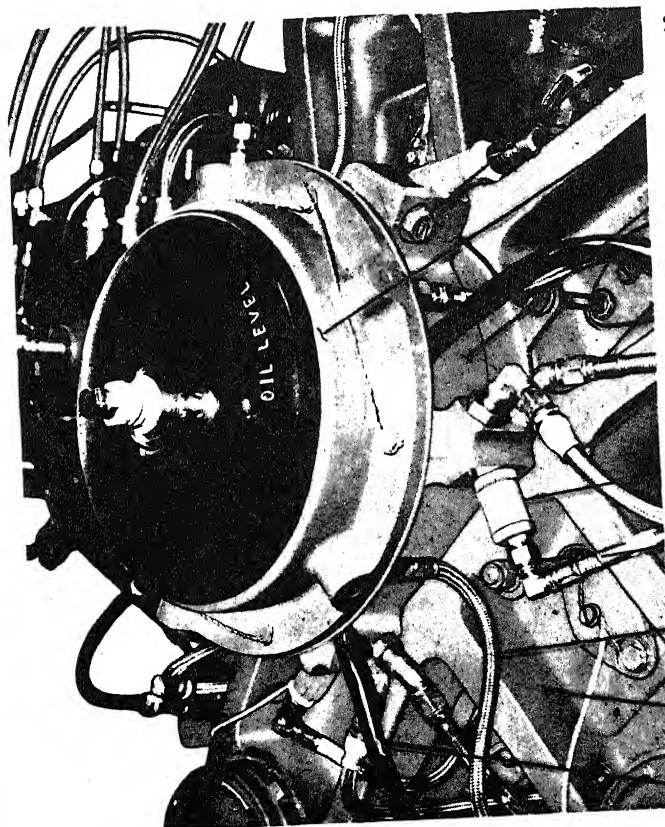


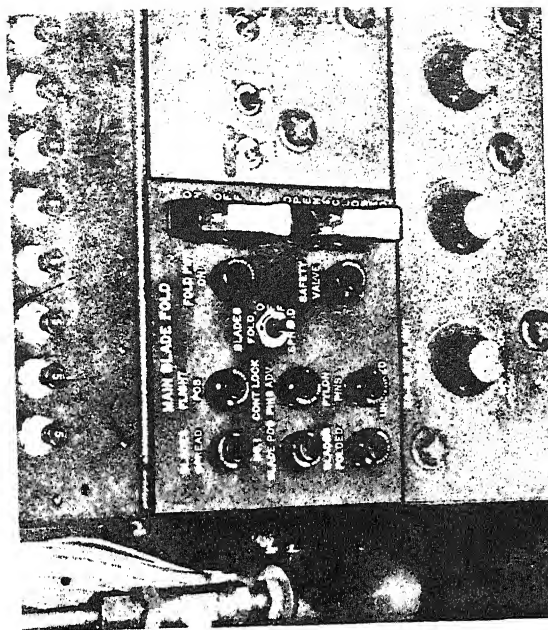
Figure 1-1. General Arrangement - Exterior

BLADE FOLD DISTRIBUTION MANIFOLD



1. Blade Fold Electrical Wiring
2. Rotary Wing Hub
3. Damper Hydraulic Line
4. Positioner Hydraulic Pressure Line
5. Positioner Snubber Valve

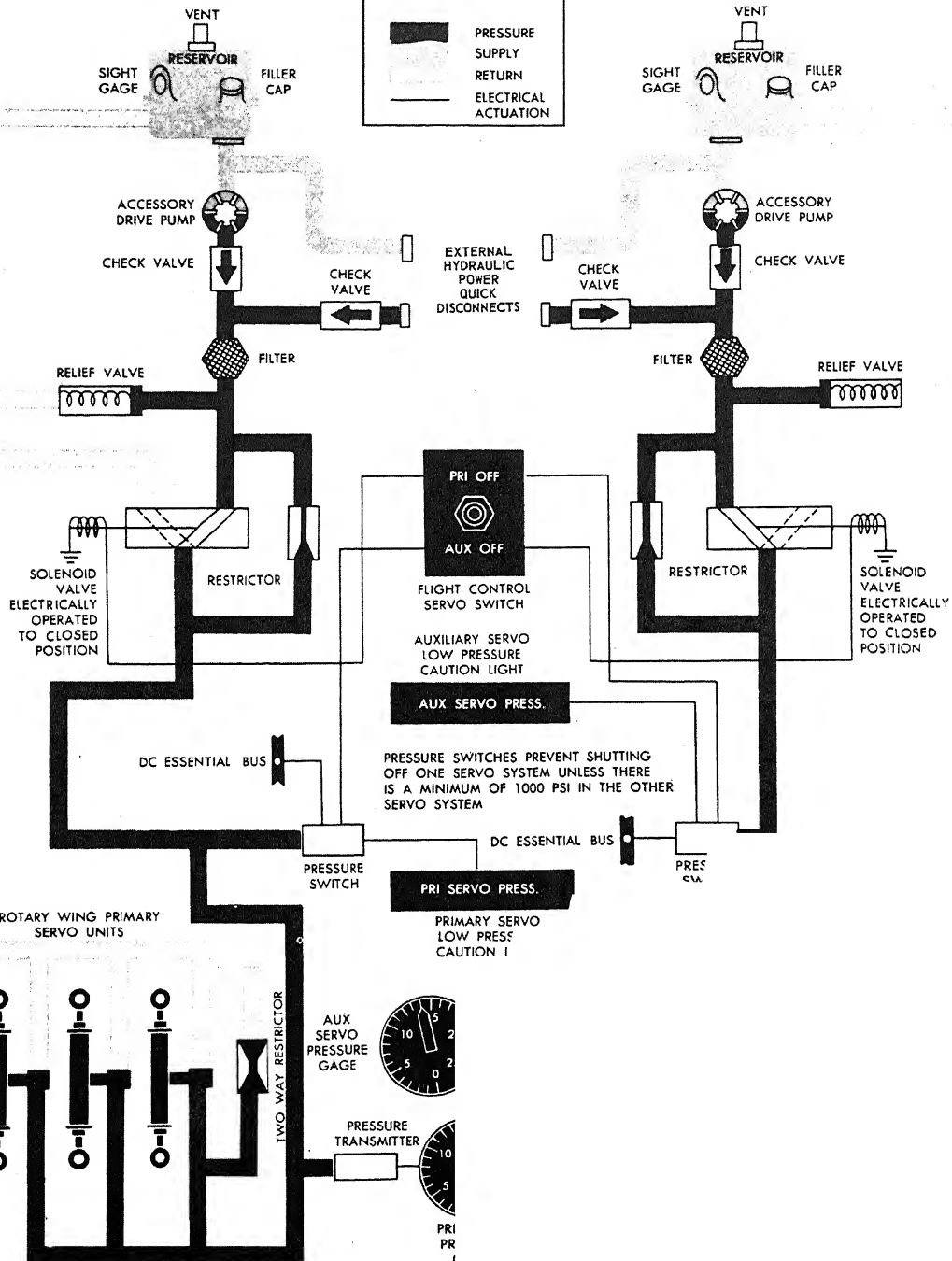
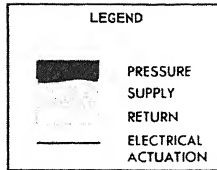
6. Fold Pressure-Spread Return Line
7. Spread Pressure-Fold Return Line
8. Manifold
9. Fluid Tank
10. Manifold Shuttle Valve



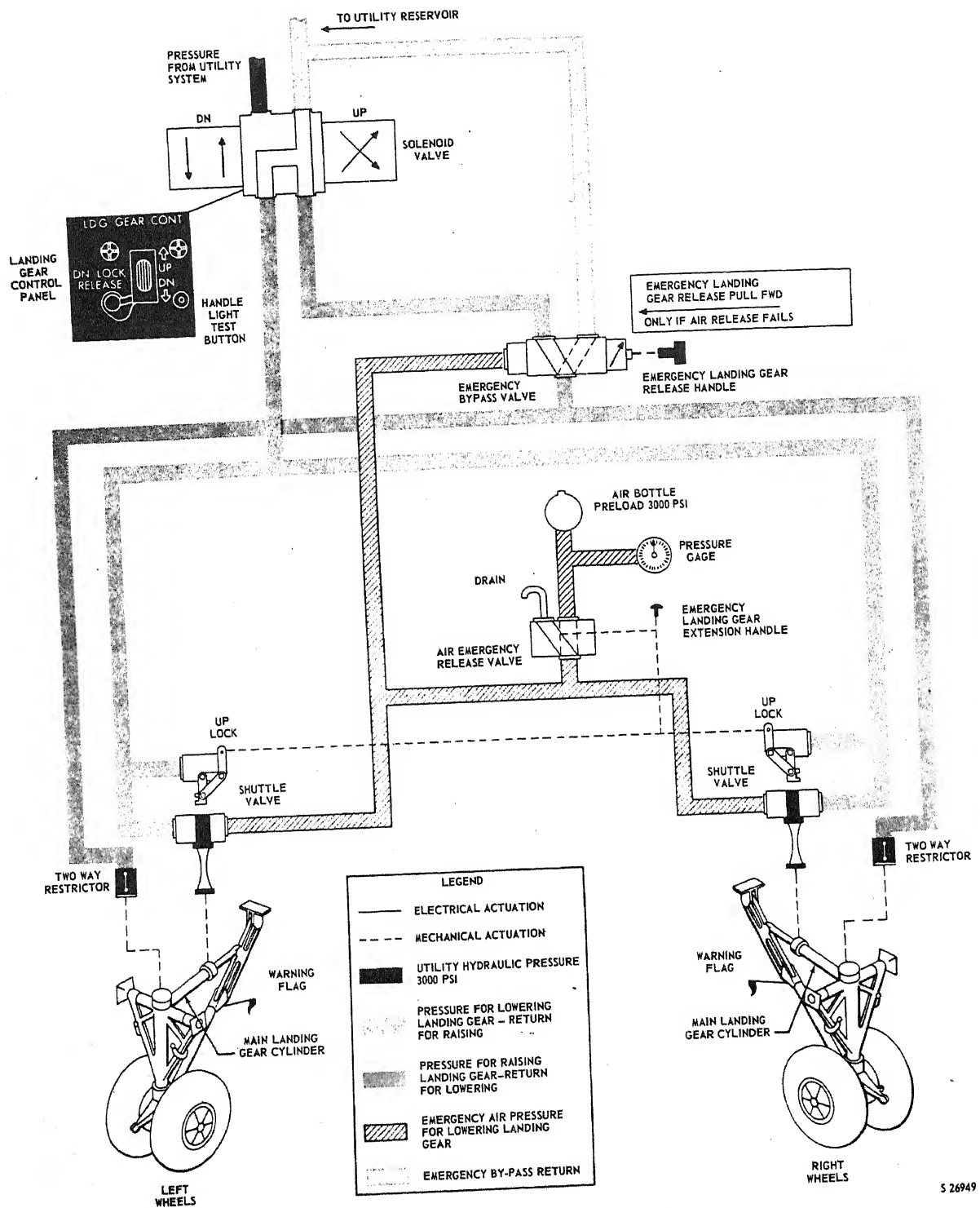
Blade Fold Control Panel

PRIMARY SERVO HYDRAULIC SYSTEM

AUXILIARY SERVO HYDRAULIC SYSTEM



Flight Cont



S 26949 (R1)

Landing Gear Hydraulic System

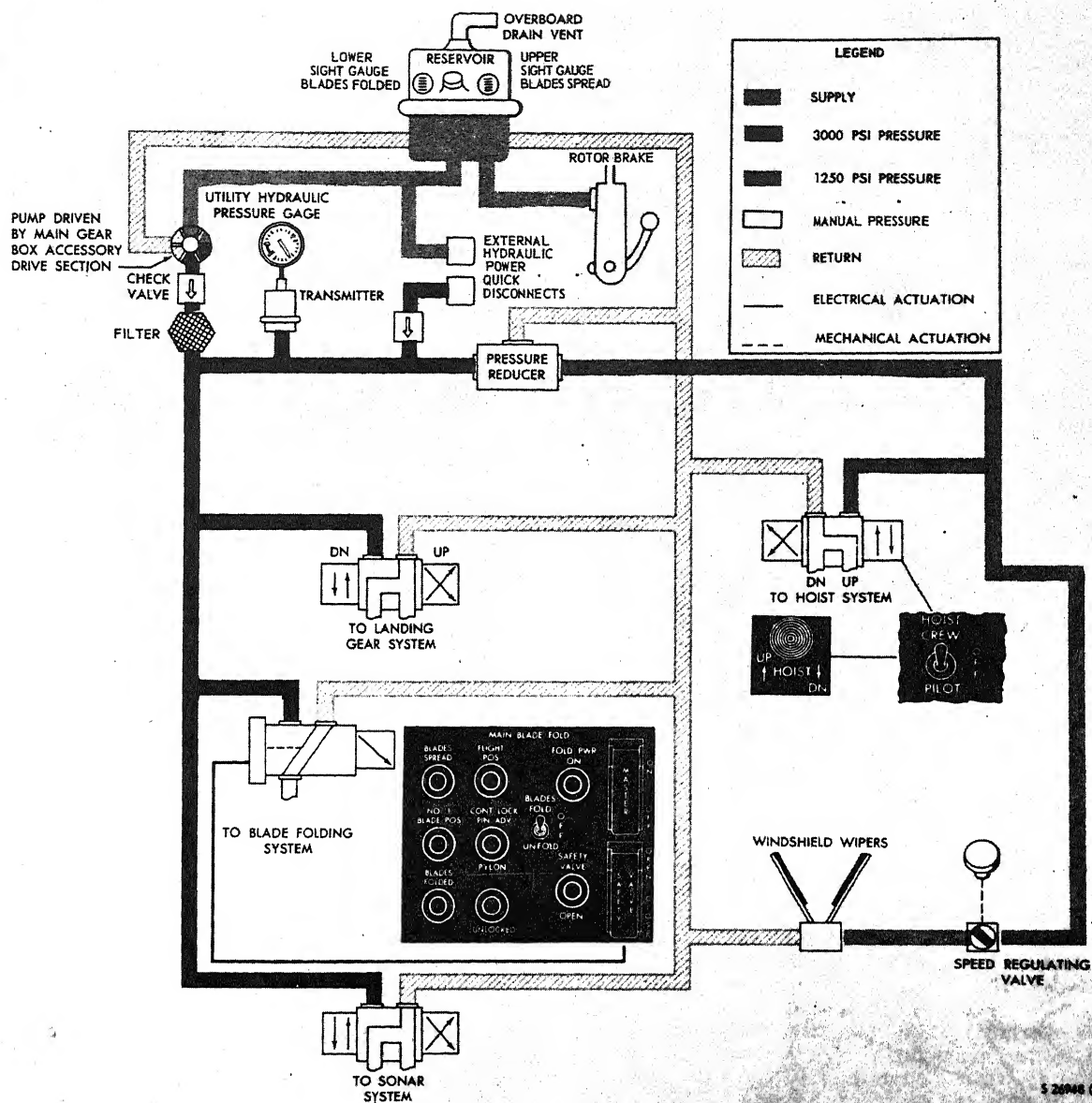
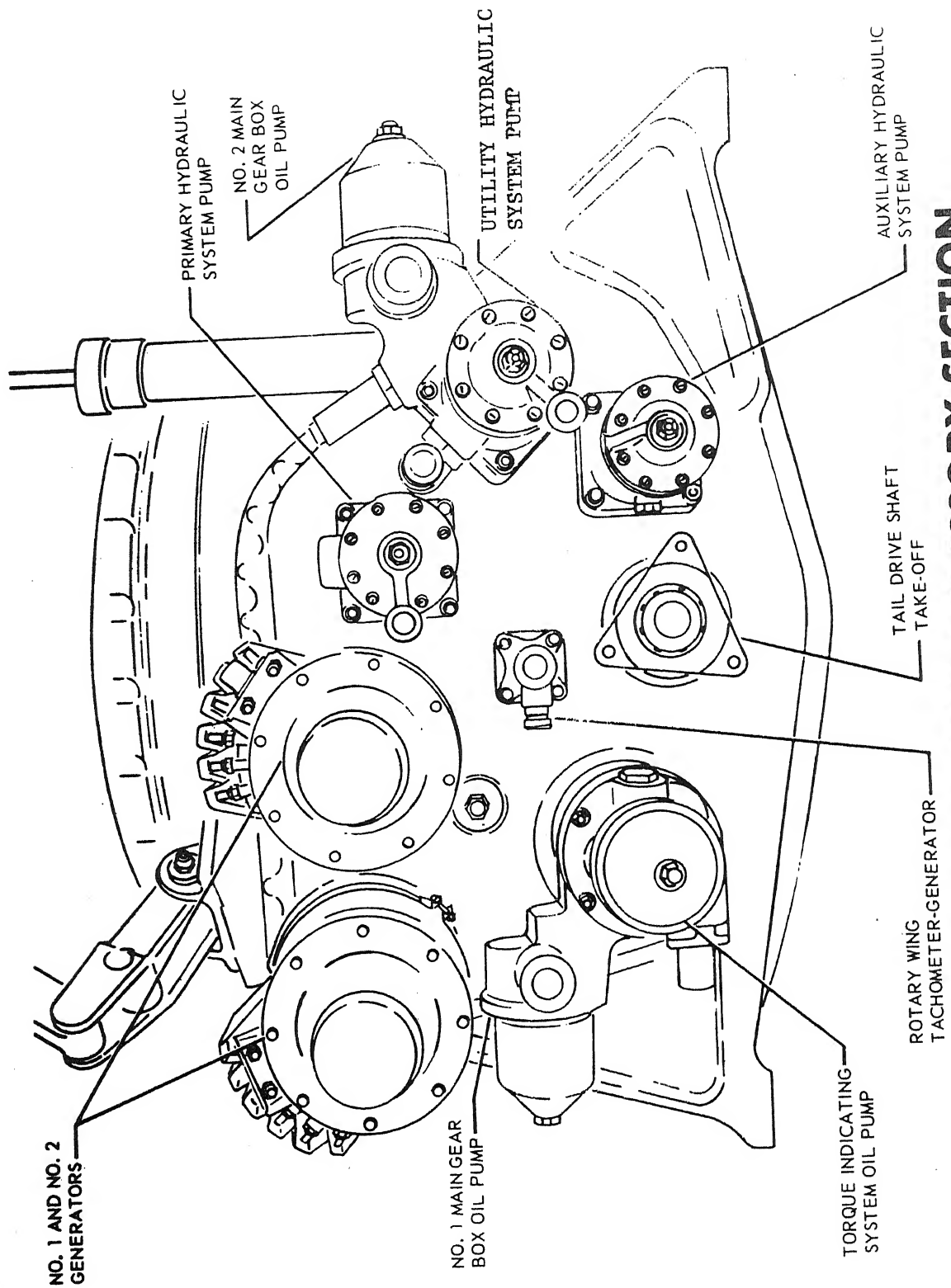
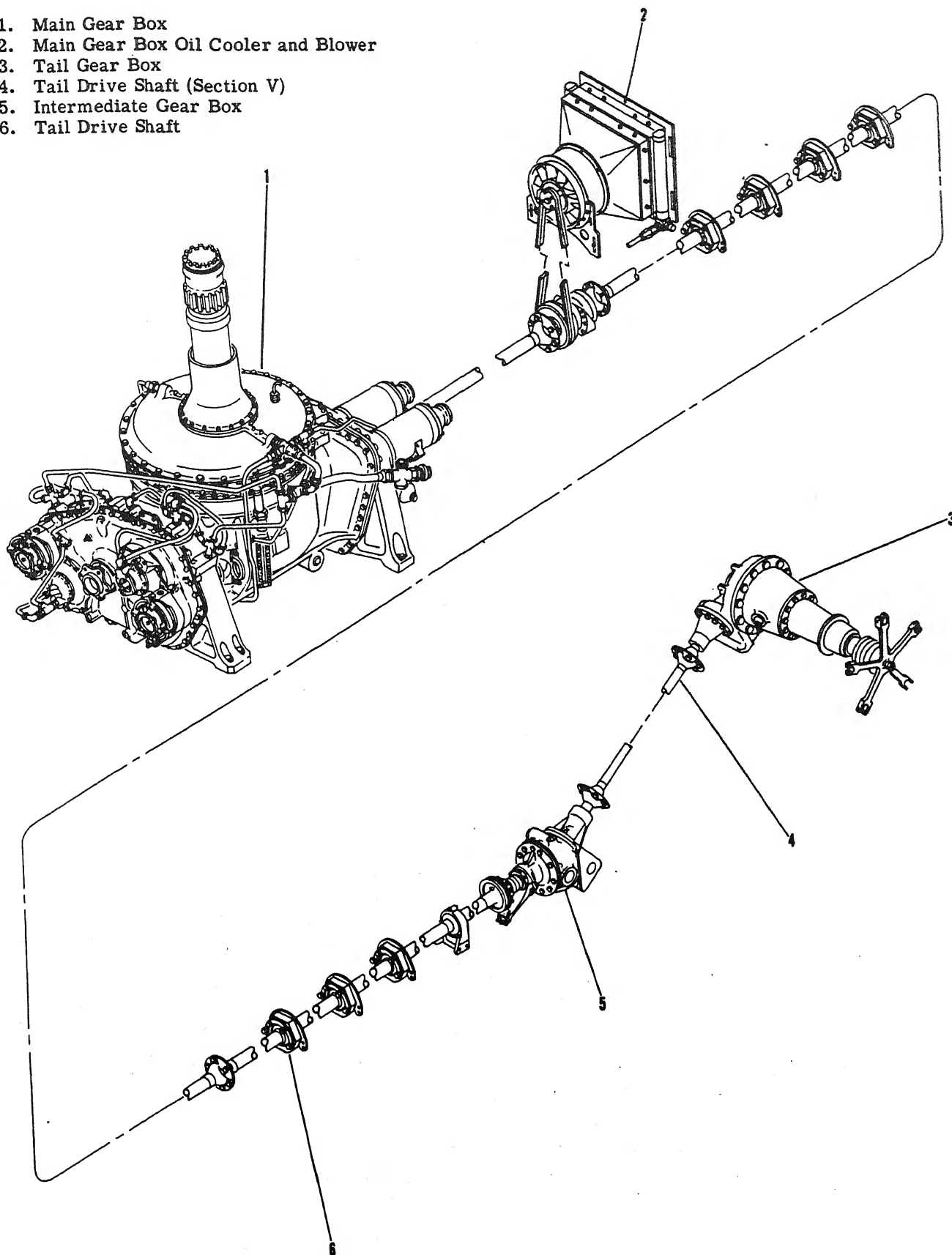


Figure 1-42. Utility Hydraulic System

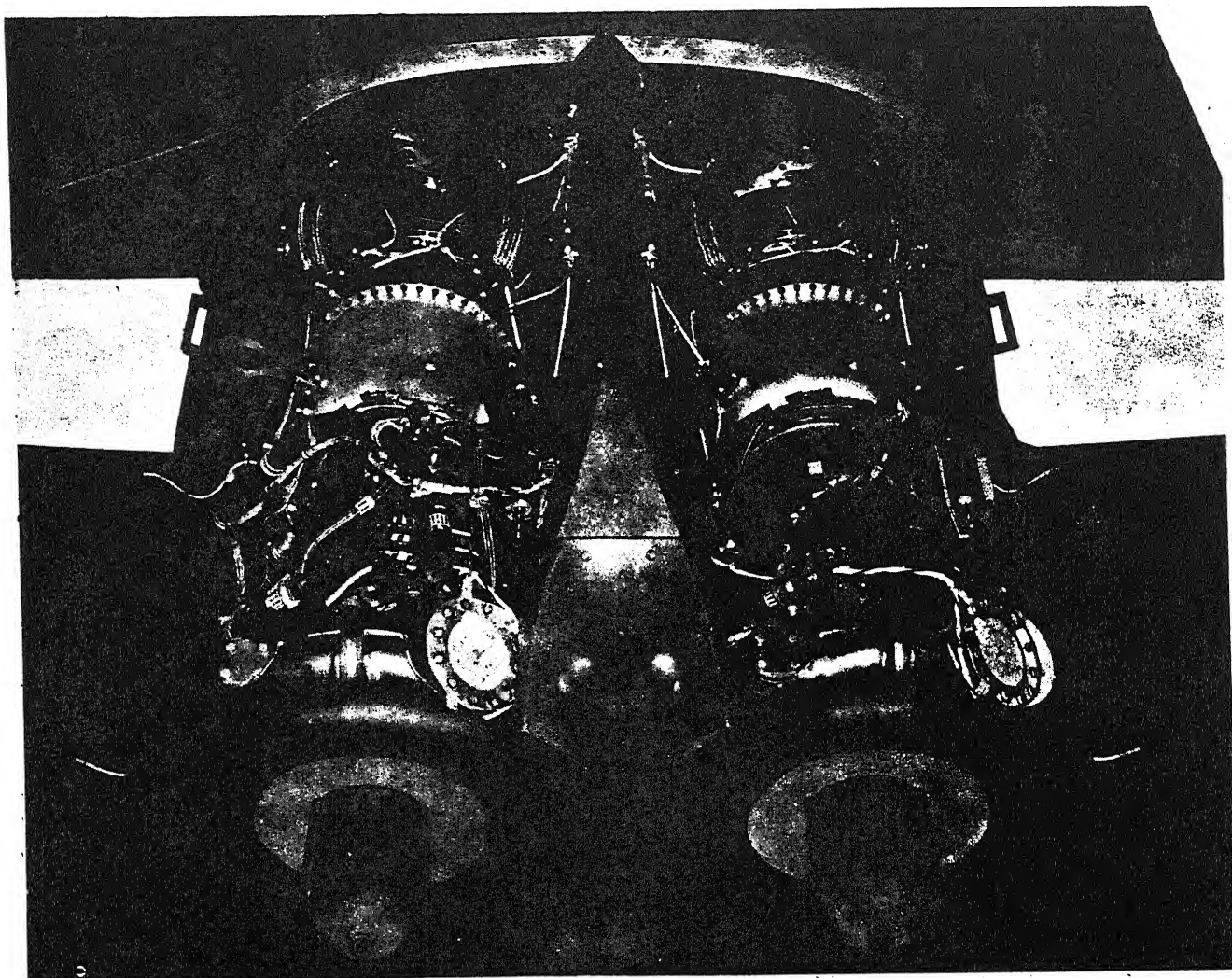


MAIN GEAR BOX ACCESSORY SECTION

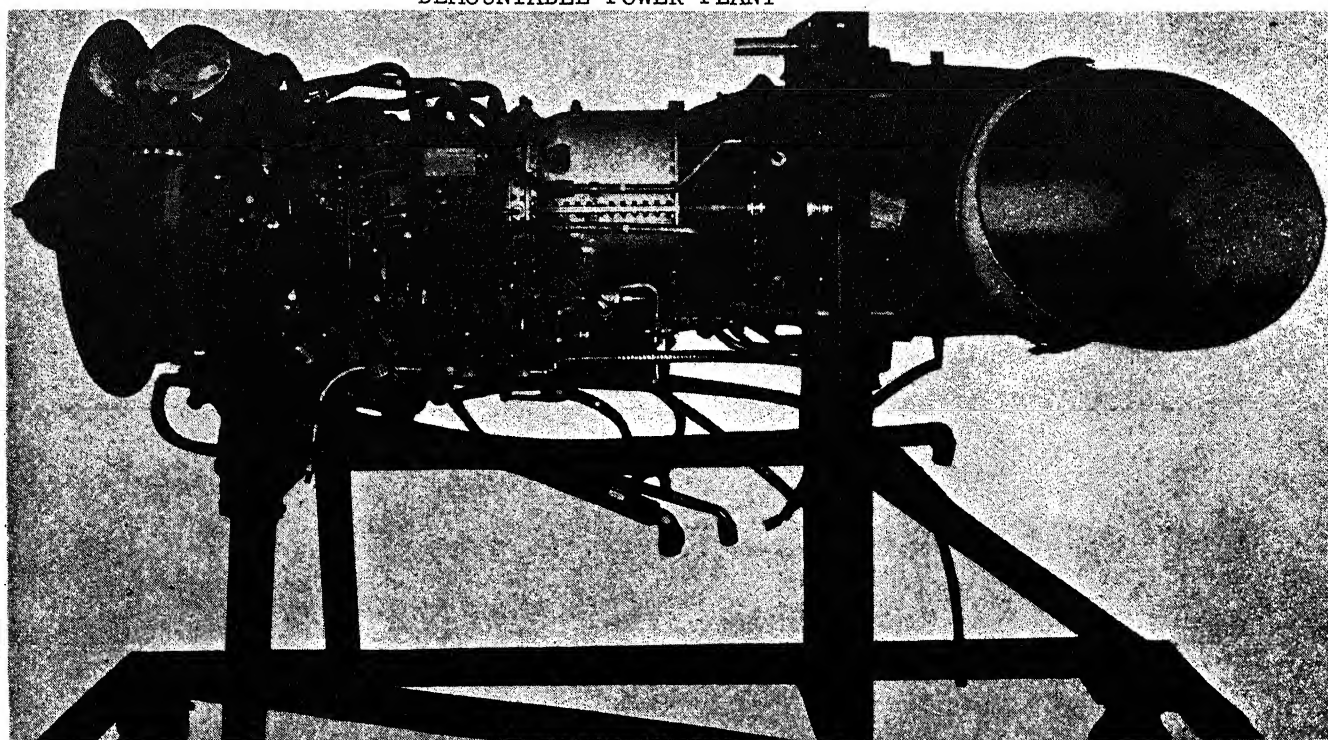
1. Main Gear Box
2. Main Gear Box Oil Cooler and Blower
3. Tail Gear Box
4. Tail Drive Shaft (Section V)
5. Intermediate Gear Box
6. Tail Drive Shaft

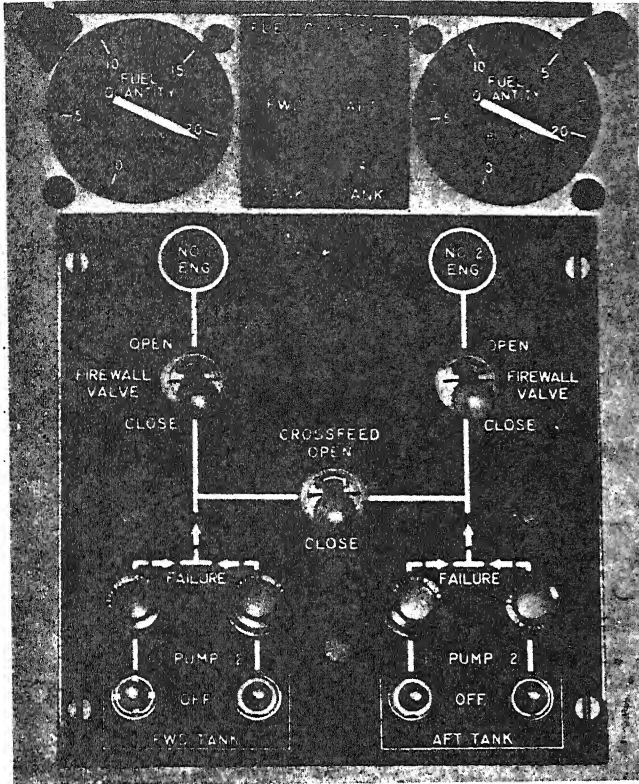


Transmission System

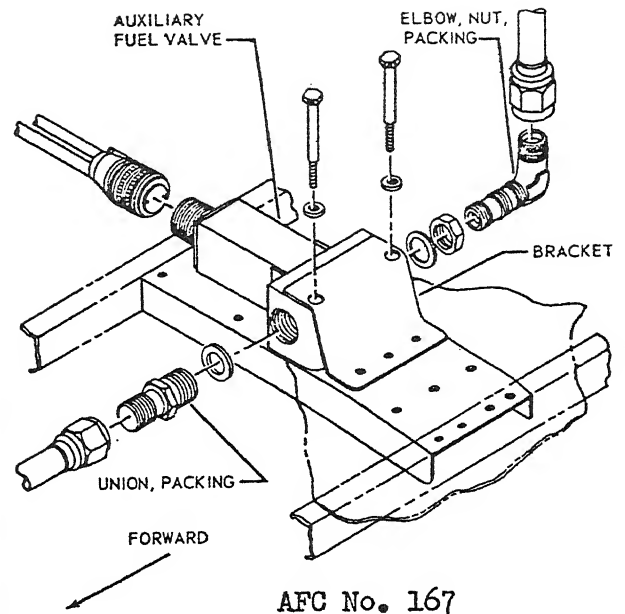


POWER PLANTS INSTALLED
DEMOUNTABLE POWER PLANT



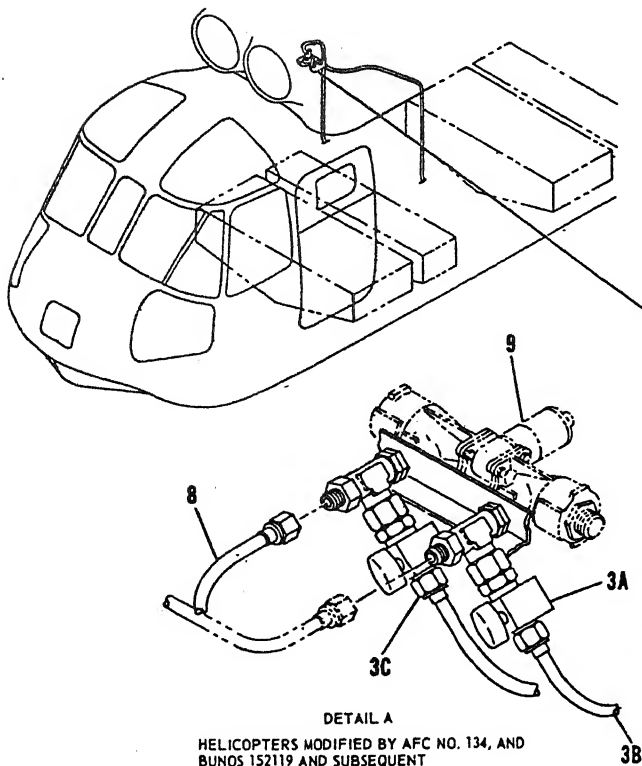


Fuel Management Panel

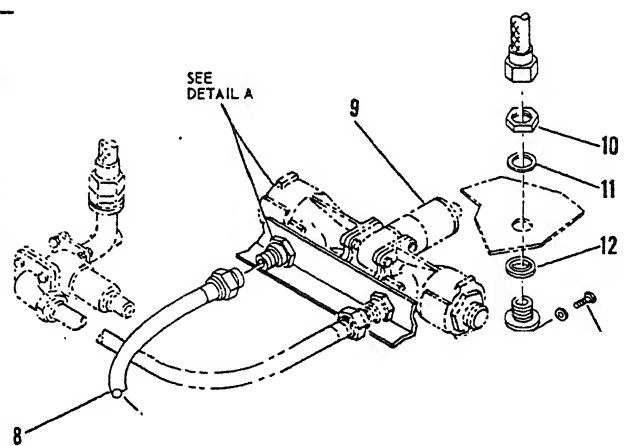


AFC No. 167

Auxiliary Fuel Valve



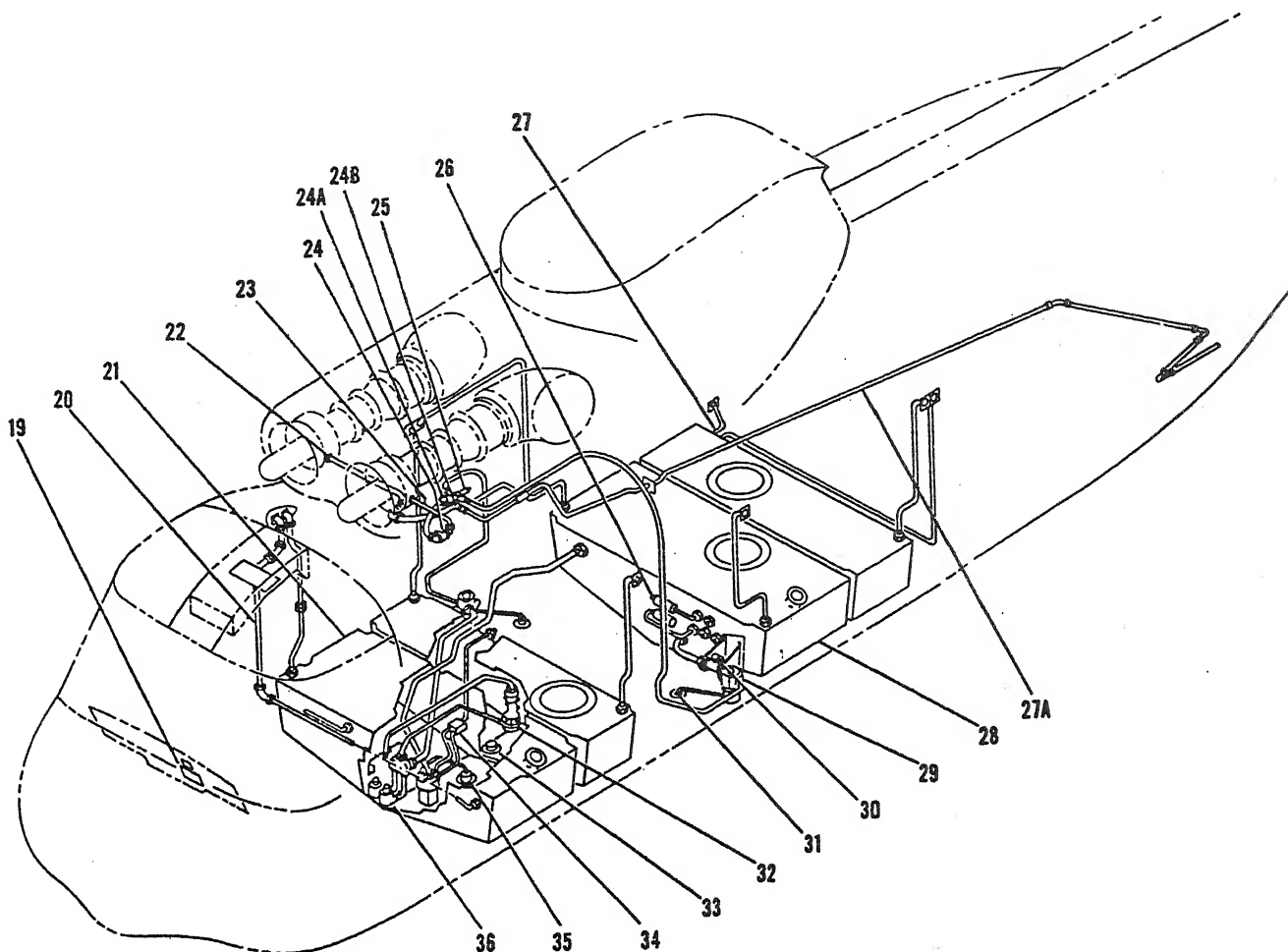
DETAIL A
HELICOPTERS MODIFIED BY AFC NO. 134, AND
BUNOS 152119 AND SUBSEQUENT



1. Bolt, Washers
2. Bolt, Washer, Nut
3. Fitting
- *3A. Manual Off-Loading Valve
- *3B. Tube
- *3C. Manual Off-Loading Valve
- *4. Fire Wall Valve, Packing

■ *Helicopters Modified by AFC No. 134

Firewall Valve

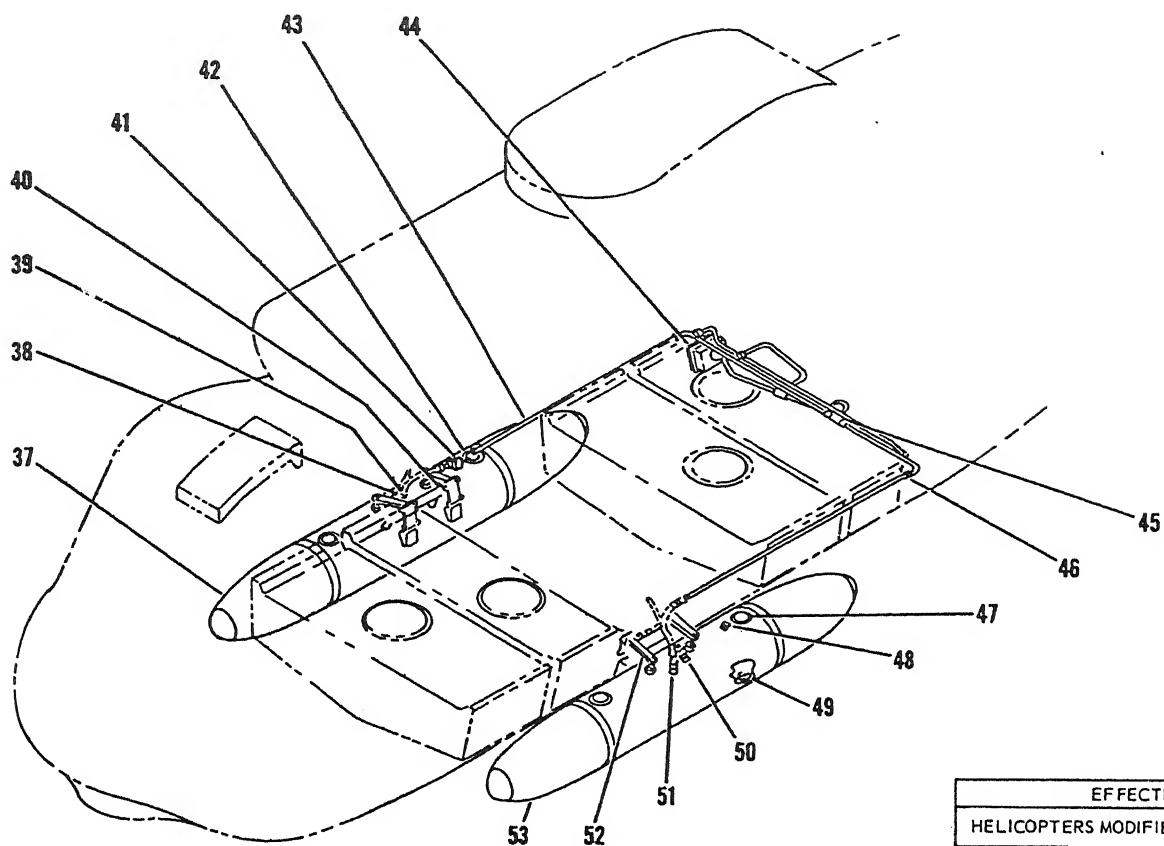


EFFECTIVITY
BUNOS 149679 AND SUBSEQUENT

- | | |
|-------------------------------------|-----------------------------------|
| 19. Fuel Management Panel | 27. Fueling and Defueling Adapter |
| 20. Fuel Vent System | *27A. Fuel Off-Loading System |
| 21. Forward Fuel Tank | 28. Aft Fuel Tank |
| 22. Fuel Supply Line (No. 2 Engine) | 29. Filter |
| 23. Fuel Supply Line (No. 1 Engine) | 30. Manual Shut-Off Valve |
| 24. Firewall Shut-Off Valves | 31. Filter Drain Valve |
| *24A. Manual Off-Loading Valve | 32. Fuel Ejector Unit |
| *24B. Manual Off-Loading Valve | 33. Drain Valve (Cell Sump) |
| 25. Crossfeed Valve | 34. High Level Shut-Off Valve |
| 26. Pressure Switches | 35. Low Level Shut-Off Valve |
| | 36. Booster Pump |

*Helicopters Modified by AFC No. 134 and Bu Nos 152119 and Subsequent

Fuel System



EFFECTIVITY
HELICOPTERS MODIFIED BY AFC NO. 203

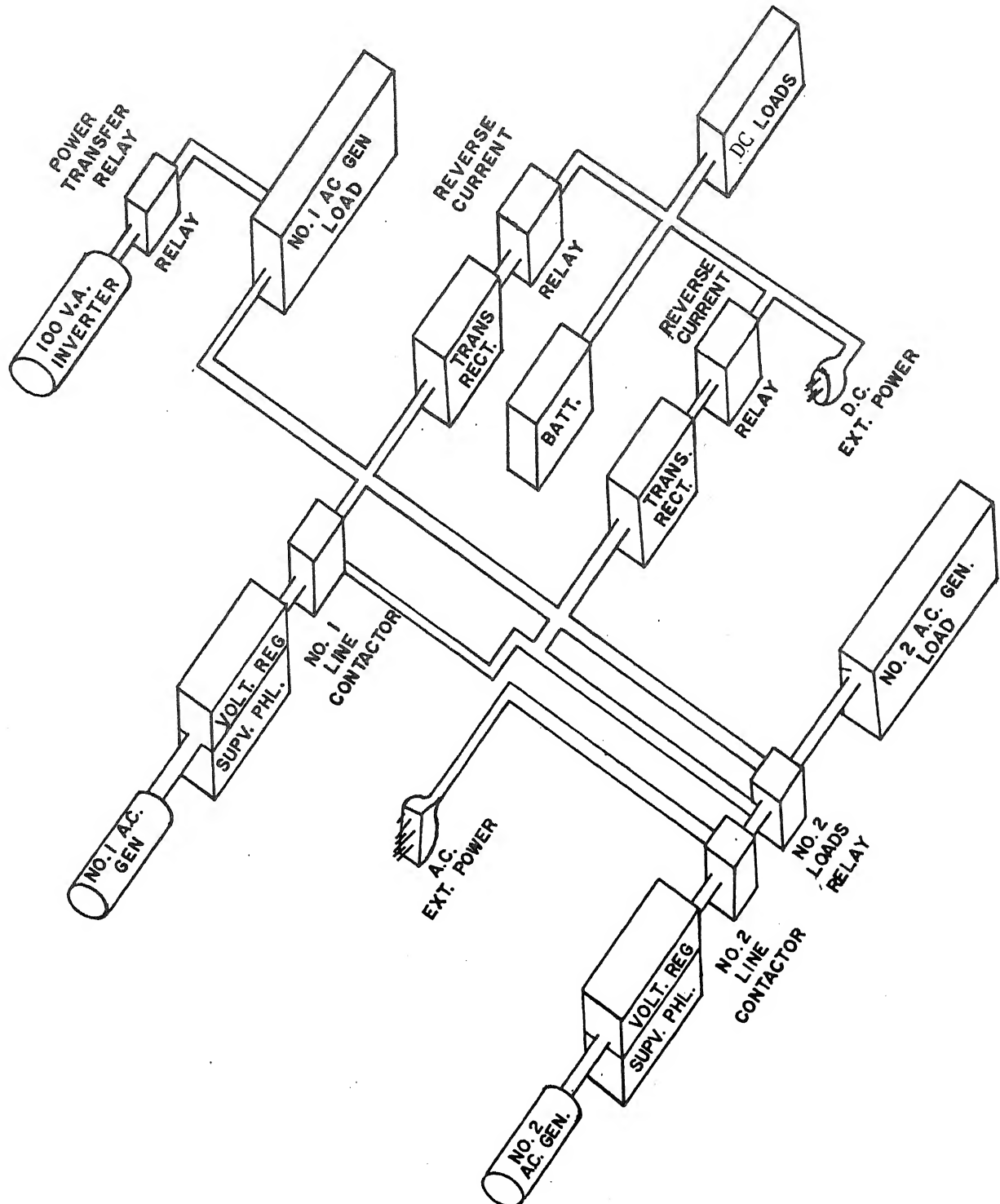
- 37. Auxiliary Fuel Tank
- 38. Electrical Quick-Disconnect Coupling
- 39. Fuel Quick-Disconnect Coupling
- 40. Launcher Assembly
- 41. Tank Vent
- 42. Filler Cap
- 43. Fuel Transfer Line
- 44. Fuel and Defueling Adapter

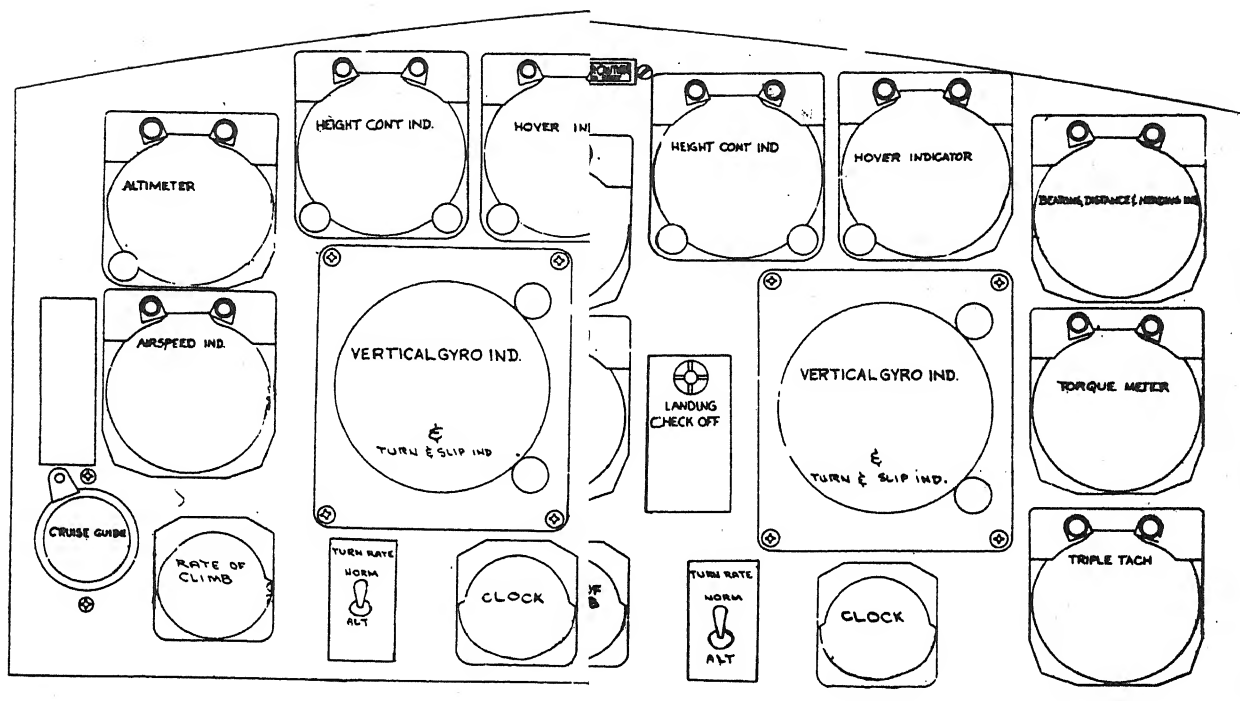
- 45. Check Valves
- 46.

Auxiliary Fuel System

ELECTRICAL POWER

SH3 POWER DISTRIBUTION





SH-3D **TRAINING DRAWING**
FOR REFERENCE ONLY



	GROUND		IN FLIGHT								
			LO ALT		HI ALT			RADAR ALTIMETER			
						100 ft Descending Through		Unreliable		Power Failure	
					(Below 30 ft)	ASE Coupler Disengaged	ASE Coupler Engaged	Landing Gear Up	Landing Gear Down		
		Press to Test	Landing Gear Up	Landing Gear Down	Landing Gear Up	Landing Gear Down		Above 700 ft	Below 700 ft		
Visual Warning	No	Yes	Yes	Yes	Yes (3 sec.)	Yes (3 sec.)	No	No	Yes	No	Yes (any altitude)
Aural Warning	No	Yes	Yes	No	Yes (3 sec.)	Yes (3 sec.)	No	No	Yes	No	Yes (any altitude)